ETAS ES570.1

Gigabit Automotive Ethernet TAP

User Guide

www.etas.com

ES570.1 I User Guide R04 EN I 12.2025

Contents

1 Introduction

1.1 About ES570.1 - Gigabit Automotive Ethernet TAP

The module ES570.1 is equipped with four Gigabit Automotive Ethernet interfaces. It also has a 2.5 Gigabit Ethernet interface to the PC. The module can be connected to the following products, among others:

- Other ETAS devices with Automotive Ethernet interface such as BR_XETK
- Access to the vehicle network, such as ECUs with Automotive Ethernet interface
- Direct access to the Automotive Ethernet interface in the vehicle network (TAPing)

1.1.1 Scope of Application

The ES570.1 can be used for the following tasks:

- Connection to other ETAS devices with Automotive Ethernet interface such as BR_XETK for measurement and calibration tasks
- Access to the vehicle network via automotive Ethernet interface for monitoring applications and/or application for protocol communication

1.1.2 Properties

The most important properties at a glance:

- Simpler configuration for easy measurement setup
- AE interface speeds of 100Base-T1 or 1000Base-T1
- Host interface supports 1000BaseT and 2500BaseT standard Ethernet
- High-precision time synchronization with ETAS devices using IEEE1588
- TAPing module with integrated relays ensures communication even when switched off
- TAPing module supports IEEE802.1as in the vehicle network
- Internationally standardized connectors
- High mechanical stability and ruggedness

1.2 Target audience and intended use

Target audience

For the safe and efficient use of the product, the user is expected to have comprehensive expertise and practical experience in the following automotive domains:

- Electrical and electronic system architectures in motor vehicles
- Sensor technology and control engineering
- Bus systems and communication protocols
- Electronic control unit (ECU) development and calibration
- Safety guidelines and regulatory requirements for the development and validation of vehicle systems

Intended use

The product was developed and approved for applications in the automotive sector. Only operate the product as per its specifications. If the product is used in any other way, product safety is no longer ensured.

The interface modules are designed for the following applications:

- Detecting signals from ETK and ECU interfaces, as well as from vehicle buses
- Flash programming of ECUs

Application Areas

- The product is approved for use in the following areas:
  - Interior
  - Passenger compartment
  - Trunk
- Do not operate the product in a wet or damp environment.
- Do not operate the product in potentially explosive atmospheres.

Technical Condition

The product is designed in accordance with state-of-the-art technology. Only operate the product and its accessories if they are in perfect working order. Shut down a damaged product immediately. Do not open or alter the product. Only ETAS may make changes to the product.

1.3 Safety instructions and classification

Refer to the following safety instructions and the technical documentation available to download from the ETAS website www.etas.com. Keep the information provided in a safe place.

Failure to comply with the safety instructions may lead to the risk of damage to life and limb or property. The ETAS Group and its representatives shall not be liable for any damage or injury caused by improper operation or use of the product.

Only use the product if you have read and understood the information concerning safe operation and have the required qualifications and training for this product. If you have questions about safe operation, contact ETAS:

- Technical Support: www.etas.com/hotlines
- Regional ETAS Contact Partner: www.etas.com/contact

The product is only approved for the applications described in the technical documentation. When using and operating this product, all applicable regulations and laws must be observed.

ETAS products, made available as beta versions or prototypes of firmware, hardware and/or software, are to be used exclusively for testing and evaluation purposes. These products may not have sufficient technical documentation and not fulfill all requirements regarding quality and accuracy for market-released series products. The product performance may therefore differ from the product description. Only use the product under controlled testing and evaluation conditions. Do not use data and results from beta versions without prior and separate verification and validation and do not share them with third parties.

Before commissioning, check whether a Known Issue Report (KIR) is available for the current product version: www.etas.com/kir (Password: KETASIR). Note the information given in the report.

Program codes or program control sequences that are created or changed via ETAS products, as well as all types of data obtained through the use of ETAS products, must be checked for their reliability and suitability prior to use or distribution. Only use these codes or sequences in public areas (e.g. in road traffic) if you have ensured that the application and product settings are safe through testing in self-contained and designated testing environments and circuits.

This ETAS product allows you to influence safety-relevant systems or data (e.g. in motor vehicles, vehicle components and test benches). In the event of a malfunction or a hazardous situation, it must be possible to put the system into a safe state (e.g. emergency stop or emergency operation).

1.3.1 Classification of Safety Messages

Safety messages warn of dangers that can lead to personal injury or damage to property:

DANGER

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation that, if not avoided, could result in damage to property.

1.3.2 Assembly

Only install, connect, disconnect and cable ETAS products and components when they are de-energized.

1.3.2.1 Assembly location

CAUTION

Class A product

This product is not intended for use in residential environments and might not provide adequate protection to radio reception in such environments.

NOTICE

Damage to the electronics due to potential equalization

The cables' shield may be connected to the housing, the ground or the ground for the product's power supply. If there are different ground potentials in the test setup, equalizing currents can flow between the products via the cables' shield.
Take account of different electric potentials in your test setup and take appropriate measures to prevent equalizing currents.

1.3.2.2 Securing the Product

The housing must not be damaged while securing the product.

WARNING

Risk of injury due to inadequate fastening

- Secure the product so that it does not move uncontrollably.
- Only use carrier systems and fastening materials that can accommodate the static and dynamic forces of the product and are suitable for the ambient conditions.

1.3.2.3 Ventilation

- Protect the product against direct solar radiation and other sources of heat.
- Ensure that there is sufficient air circulation for efficient heat exchange.

1.3.3 Operation

Only operate the product with the latest firmware. You can find information about updating the firmware in the chapter "Firmware and software update".

If the firmware update is not completed successfully, try it again. If a new firmware update is not possible and the product is not functional, send the product to ETAS.

WARNING

Risk due to undefined vehicle behavior during an ECU reset

If you operate the product in combination with ETKs, the ECU must not be reset in an uncontrolled manner.

– Only make changes when the vehicle is stationary (e.g. changes to the test setup, changes to the ETK configuration, software updates).

WARNING

Risk due to undefined system behavior when disconnecting the transparent automotive Ethernet communication between ES570.1 and the ECU

The ES570.1 must not be disconnected from the operating voltage during an active transparent automotive Ethernet connection.

1.3.4 Electrical connection

WARNING

Risk to life from electric shock

If an unsuitable power supply is used, this may generate a hazardous electrical voltage.

– Use a power supply that is permitted for the product.
– Do not connect the product to power outlets.
– To prevent inadvertent connection to power outlets, use power cords with safety banana plugs in areas with power outlets.

Electrical Safety and Power Supply

– Only connect the product to electric circuits with safety extra-low voltage in accordance with IEC 61140 (devices of class III) within the voltage limits for accessible parts as per IEC 61010-1.
– Observe the connection and setting values.
– The power supply for the product must be safely disconnected from the supply voltage. For example, use a car battery or a suitable lab power supply.

- Only use lab power supplies with dual protection for the supply network (with double/reinforced insulation (DI/RI)).
- The power supply must be suitable for use according to the ambient conditions for the product.
- It is possible to discharge the vehicle battery in regular operation and long standby operation.
- Central load-dump protection is required for operation.

Connection to the Power Supply

The product is powered by an external power supply.

- Only connect the product to the power supply via a suitable fuse protection.
- Ensure that the connections of the power supply are easily accessible.

1.3.5 Cables and accessories

Cables

- Only use ETAS cables, cables recommended by ETAS or other cables certified for the application.
- Route the cables such that they are protected against abrasion, damage, deformation and kinking.
- Do not place any objects on the cables.
- Do not use any damaged cables.
- The connector and connection must not be dirty.
- The connector and connection must be compatible.
- Correctly align the connector with the connection.
- Do not connect the connector and connection by force.

Accessories

Use ETAS accessories, accessories recommended by ETAS or other accessories certified for the application.

1.4 Unpacking

1. Prepare Workspace

   Unpack in a clean, dry, well-lit area with enough space for the equipment and avoid static damage or physical harm.

2. Open Package

   Use appropriate tools to carefully open the box without damaging the contents.

3. Verify Contents

   Compare the items with the packing list "Contents of Package" to ensure all components are present.

4. Inspect for Damage

   Visually check each item for physical damage. If found, document and report it to customer support.

2 Product overview

2.1 Graphical overview of elements

Fig. 2-1: Connections ES570.1

Fig. 1	Connection	Description
1x	Ethernet	1000BaseT / 2500BaseT Gigabit Host iX industrial connector
4x	Automotive Ethernet	100Base-T1 / 1000Base-T1, Gigabit AE T1 connectors

2.2 Compatibility

2.2.1 System requirements

For the configuration of the product as well as the control and data acquisition, you need ETAS software in the following versions:

INCA	starting with Version 7.5.3
HSP	starting with Version 14.3.0

2.2.2 Compatible products

The ES570.1 supports direct connection to the following ETAS modules:

Automotive Ethernet Side:

- BR_XETK

Standard Ethernet Side:

- ES8xx (Aggregator)

3 Hardware setup

3.1 Transportation and packaging

Transport

- Only transport the product individually.
- Remove all connected cables before transportation.
- Do not transport the product by the connected cables.

3.2 Mounting and placement

WARNING

Risk of injury due to inadequate fastening

- Secure the product so that it does not move uncontrollably.
- Only use carrier systems and fastening materials that can accommodate the static and dynamic forces of the product and are suitable for the ambient conditions.

CAUTION

Class A product

This product is not intended for use in residential environments and might not provide adequate protection to radio reception in such environments.

3.3 Connection to the power supply

WARNING

Risk to life from electric shock

If an unsuitable power supply is used, this may generate a hazardous electrical voltage.

- Use a power supply that is permitted for the product.
- Do not connect the product to power outlets.
- To prevent inadvertent connection to power outlets, use power cords with safety banana plugs in areas with power outlets.

The ES570.1 is powered by an external power supply.

3.4 Connection with other products

NOTICE

Damage to the electronics due to potential equalization

The cables' shield may be connected to the housing, the ground or the ground for the product's power supply. If there are different ground potentials in the test setup, equalizing currents can flow between the products via the cables' shield.
Take account of different electric potentials in your test setup and take appropriate measures to prevent equalizing currents.

Note

Ensure that the test setup is EMC-compliant. A test setup that uses shielded and unshielded components at the same time can lead to impairment of the signal quality and is not recommended by ETAS.

Note

Please ensure that the device is installed and operated as described in the user manual to maintain the specified EMC properties in the respective application. Deviation from the specified installation and operation instructions or connecting the device with other devices may result in a deviation from the specified EMC properties.

The ES570.1 module has 4 automotive Ethernet interfaces and one Ethernet interface to the PC for signal logging and flash programming of ECUs. Power is supplied via an external power cable.

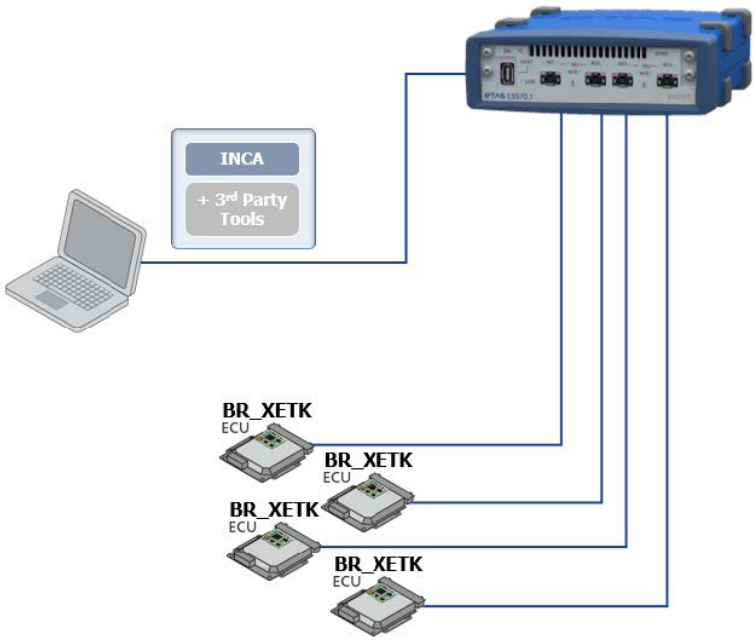


Fig. 3-1: Use case BR_XETK

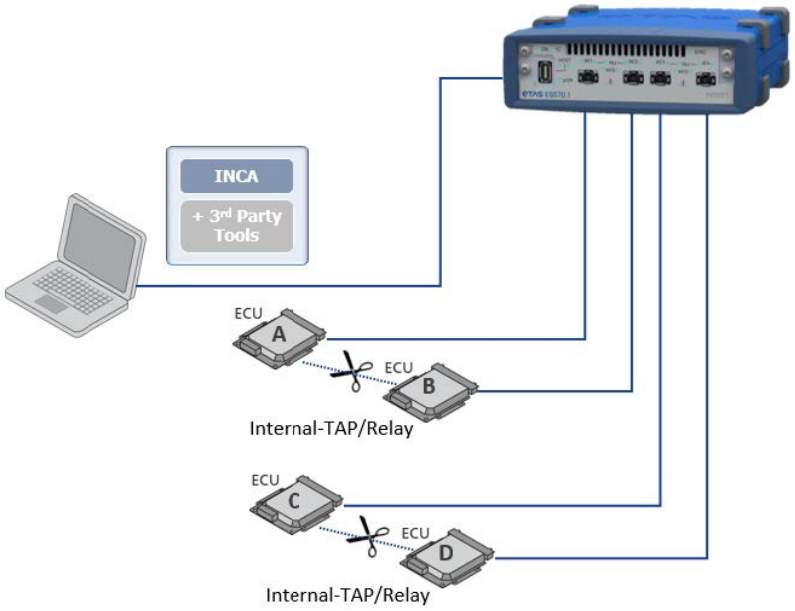


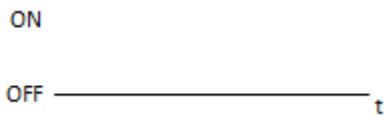
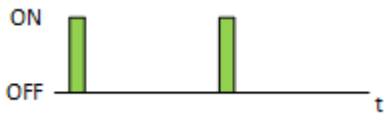
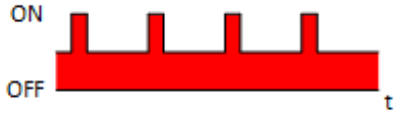
Fig. 3-2: Use case: Ethernet monitoring and active protocol communication

4 Basic operation

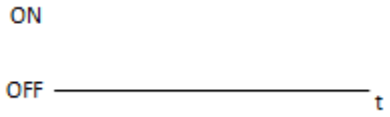
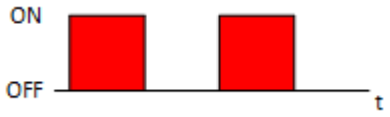
4.1 Status indicator

The ES570.1 is equipped with 20 LEDs for displaying the module's operating state, as well as for displaying the function of the four Automotive Ethernet interfaces.

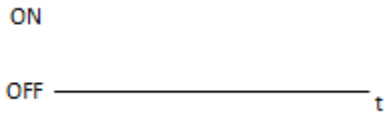
ON

LED code	Display	State
	Off	Module is switched off.
	Flashing green	Module is on standby.
	Lit green	Module is switched on.
	Flashing green and red	Module is booting. Do not disconnect the module from the power supply.
	Lit red	Module is in error state.
	Flashing red	Module recognition

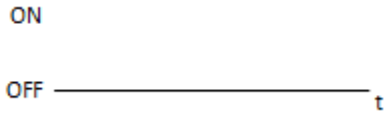
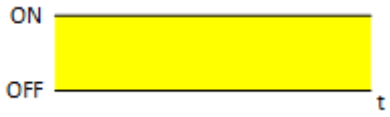
°C

LED code	Display	State
	Off	Module temperature is OK.
	Flashing red	Critical module temperature reached.
	Lit red	Critical module temperature exceeded.

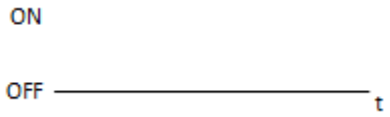
SYNC

LED code	Display	State
	Off	No synchronization.
	Flashing blue	Module is synchronization master.
	Lit blue	Module is synchronized externally.

HOST link (right)

LED code	Display	State
	Off	No connection.
	Lit yellow	Connection established.
	Flashing yellow	Interface communication.

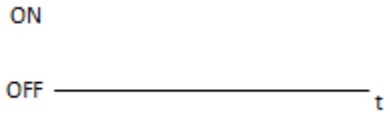
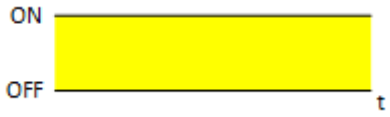
HOST speed (left)

LED code	Display	State
	Off	No connection.
	Lit green	Communication speed 2.5 Gbit/s
	Lit orange	Communication speed below 2.5 Gbit/s

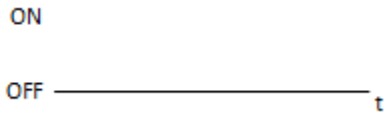
pONI

LED code	Display	State
	Off	Quick start deactivated.
	Lit green	Quick start activated.

AE1-4 link (right)

LED code	Display	State
	Off	No connection.
	Lit yellow	Connection established.
	Flashing yellow	Interface communication.

AE1-4 speed (left)

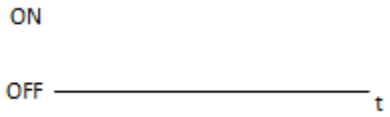
LED code	Display	State
	Off	No connection.
	Lit green	Communication speed 1 Gbit/s
	Lit orange	Communication speed 100 Mbit/s

INJ

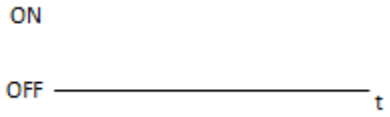
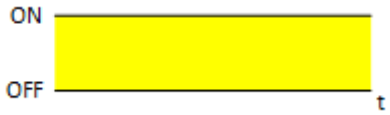
Reserved for future use.

M/S

One LED per AE connector.

LED code	Display	State
	Off	The AE interface operates as slave.
	Lit green	The AE interface operates as master.
	Flashing green	The AE interface searches for master or slave role.

!

LED code	Display	State
	Off	The AE interface is configured for TAPing.
	Lit yellow	The AE interface is configured for single-device use.

5 Overview of functions

5.1 Automotive ethernet

The ES570.1 modules support the transport of Ethernet frames at the Automotive Ethernet interfaces AE1-4.

In the TAP-mode the ES570.1 interrupts the existing Automotive Ethernet line and transmits the Ethernet Frames unchanged.

This functionality is referred to as TAP. TAP is used differently in other environments.

Operating Modes

The Automotive Ethernet interfaces can be configured in the following operating modes:

- Communication with BR_XETK
- Ethernet Monitoring and active protocol communication

6 Commissioning

WARNING

Risk due to undefined system behavior when disconnecting the transparent automotive Ethernet communication between ES570.1 and the ECU

The ES570.1 must not be disconnected from the operating voltage during an active transparent automotive Ethernet connection.

Note

When the device is switched on or off, the Automotive Ethernet connection may be briefly interrupted for a maximum of 200 ms. The duration of the interruption results from re-establishing the AE connection between the respective end points.

Note

Configure the communication speed and master/slave role of the ES570.1 Automotive-Ethernet-Interface according to the configuration of the connected Automotive Ethernet interfaces in the vehicle network or other ETAS devices.

7 Technical specification

7.1 Hardware specifications

7.1.1 Ambient conditions

Operating temperature range	-40°C to +70°C -40°F to +158°F
Storage temperature range (without packaging)	-40°C to +85°C -40°F to +185°F
Max. relative humidity (non-condensing)	95%
Max. altitude	5000m / 16400ft.
Degree of contamination (IEC 60664-1, IEC 61010-1)	2
Protection rating (IEC 60529) (when closed)	IP30

7.1.2 Electrical data

Operating voltage range	6 V to 32 V DC
Max. current consumption	4 A
Current consumption (standby)	approx. 0.003 A (at 12 V DC)
Maximum voltage to ground or to all accessible parts (e.g. ECU housing, vehicle chassis)	60 V DC / 30 V AC
Overvoltage category (mains supply, IEC 60664-1)	II

7.1.3 Mechanical data

Dimensions (H x W x D)	160 x 126 x 44 mm 6.29 x 4.96 x 1.73 in
Weight	0.83 kg / 1.83 lb

7.2 Interface specifications

7.2.1 Gigabit Ethernet Interface (HOST)

Connection type	Upstream
Number	1 (HOST)
Speed	2500Base-T
IP address	Dynamic allocation by ETAS tools
Synchronization	IEEE1588-2008
Synchronization resolution	1µs
Electrical isolation	Connection electrically isolated from module

7.2.2 Automotive Ethernet Interface (AE)

Connection type	Master or Slave (statically or automatically)
Number	4 (AE)
Connection	IEEE Std 802.3-2022: 100BASE-T1, 1000BASE-T1
Protocol	TCP/IP, UDP, XETK
Ethernet Monitoring: Hardware based filtering	VLAN filter

Synchronization	Measurement Network: IEEE 1588-2019
	Vehicle Network: IEEE 802.1AS
Synchronization resolution	1µs
Runtime delay	TAP Physical Layer (1000BASE-T1 - 1000BASE-T1): < 2.24µs
	TAP Ethernet Layer [1] (100BASE-T1 - 100BASE-T1): < 46µs
Connectable ETKs	BR_XETK-S4.0B, BR_XETK-S4.0, BR_XETK-S3.0C, BR_XETK-S3.0A
Electrical isolation	Connections separately electrically isolated.
[1] Lead time without additional frames through the application	

7.3 Product markings

Symbol	Description
	Please read the user manual before starting up the product.
SN: xxxxxxx	Serial number
F 00K xxxxxxx	Order number

Symbol	Description
x-xx V ⎓	Operating voltage range DC
xxx mA	Max. current consumption
	**China RoHS** With the China RoHS identification attached to the product or its packaging, ETAS confirms that the product meets the guidelines of the “China RoHS” (Management Methods for Controlling Pollution Caused by Electronic Information Products Regulation) applicable in the People's Republic of China.
	**CE Conformity** With the CE mark attached to the product or its packaging, ETAS confirms that the product corresponds to the applicable, product-specific Directives of the European Union. The EU Declaration of Conformity for the product is available upon request. **European Union** The EU Directive 2011/65/EU limits the use of certain dangerous materials for electric and electronic devices (RoHS conformity). This product does not contain any of the prohibited substances listed in EU Directive 2011/65/EU and does not exceed the maximum authorized concentrations specified. There are currently no equivalent alternative substances for individual electronic components used in our products. We are therefore making use of exemptions 7.a-I, 7.c-I and 6.c (for accessory cables) in Annex III of this Directive. ETAS confirms that the product meets this directive applicable in the European Union.
	**KCC Conformity** With the KC mark attached to the product or its packaging, ETAS confirms that the product has been registered in accordance with the applicable, product-specific KCC guidelines of the Republic of Korea.

Symbol	Description
	CMIM Conformity With the CMIM mark attached to the product or its packaging, ETAS confirms that the product corresponds to the product-specific, applicable directives of the Kingdom of Morocco. The CMIM Declaration of Conformity for the product is available upon request.
UK CA	**UKCA Conformity** With the UKCA mark attached to the product or its packaging, ETAS confirms that the product meets the applicable, product-specific British standards and directives. The UKCA Declaration of Conformity for the product is available upon request.
CAN ICES / NMB	**CAN ICES Conformity** This product complies with the Canadian standard: CAN ICES-003(*) / NMB-003(*) * The applicable class of the device is labeled on the product.
	Product return and recycling The European Union (EU) released the Directive for Waste Electrical and Electronic Equipment - WEEE to ensure the setup of systems for collecting, treating and recycling electronic waste in all countries of the EU. This ensures that the devices are recycled in a resource-friendly way that does not represent any risk to personal health and the environment. The WEEE symbol (see Fig.4-2) on the product or its packaging identifies that the product may not be disposed of together with the remaining trash. The user is obligated to separately collect old devices and provide them to the WEEE return system for recycling. The WEEE Directive applies to all ETAS devices, but not to external cables or batteries. Additional information about the recycling program of ETAS GmbH is available from the ETAS sales and service locations.

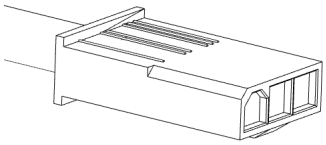
7.4 Connectors

> **Note**
>
> All connections are shown with view of the module interfaces.

7.4.1 Terminal assignment of cables

7.4.2 Power supply

VAL-U-LOK connector

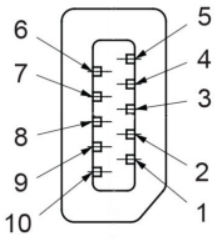


Pin	Signal
1	UBATT+
2	NC
3	UBATT-

7.4.3 Terminal assignment of sockets

7.4.3.1 Host connection

iX connection

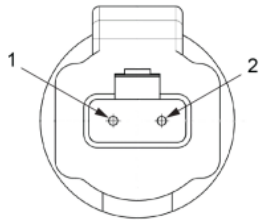


Pin	Signal
1	BI_DA+
2	BI_DA-
3	not connected
4	BI_DC+

Pin	Signal
5	BI_DC-
6	BI_DB+
7	BI_DB-
8	not connected
9	BI_DD+
10	BI_DD-

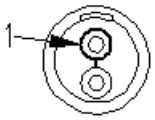
7.4.3.2 Bus / tap connection

T1 connection



7.4.3.3 Wake input

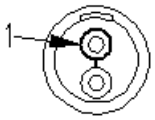
Lemo 0B, G-coded



Pin	Signal
1	Wake Signal
2	Wake Signal Reference

7.4.3.4 Power input

Lemo 1B, J-coded



Pin	Signal
1	Input Power Positive
2	Input Power Negative

8 Maintenance

8.1 Cleaning

- Only clean the product when it is de-energized.
- Do not use cleaning agents that could harm the product.
- Do not apply cleaning agents directly onto the product.
- Use a dry or slightly dampened, soft, lint-free cloth.
- Make sure that no moisture enters the product.

8.2 Firmware and software update

8.2.1 Updating the Firmware

The firmware for the product can be updated using the ETAS "Hardware Service Pack" (HSP) service software. You can find the software in the Download Center on the ETAS website: www.etas.com

8.3 Repair service

If repairs are required, send the product to ETAS.

9 Accessories and order information

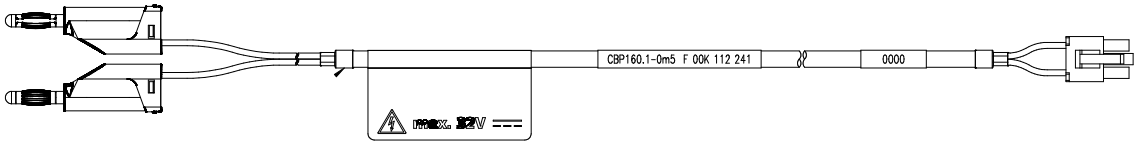
9.1 Module

Order name	Short name	Order number
ES570.1 Gigabit Automotive Ethernet TAP	ES570.1	F 00K 114 560

9.2 Cables

9.2.1 Power Cord

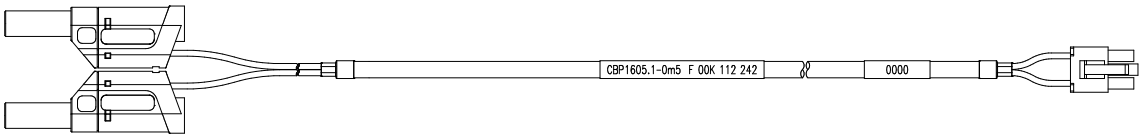
9.2.1.1 CBP160.1-0,5m with Banana Connector



CBP160.1-0m5 is a power cord with banana connector for connection of the ES570.1 to an external power supply (e.g. lab power supply).

Order name	Length	Order number
CBP160.1-0m5	0.5 m	F 00K 112 241

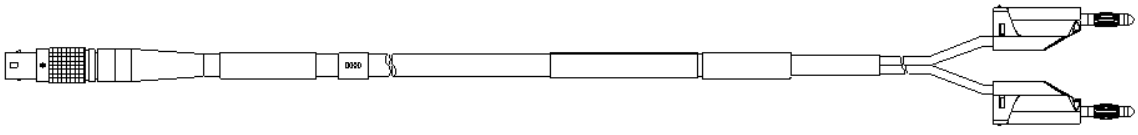
9.2.1.2 CBP1605.1-0,5m with Safety Banana Connector



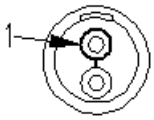
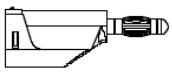
CBP1605.1-0m5 is a power cord with safety banana connector for connection of the ES570.1 to an external power supply (e.g. lab power supply).

Order name	Length	Order number
CBP1605.1-0m5	0.5 m	F 00K 112 242

9.2.2 CBP120-2



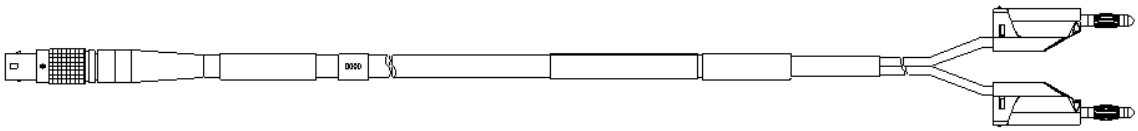
Power supply cable with standard banana plugs

Side A	Side B
	

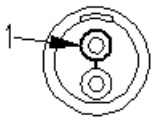
Pin	Signal	Plug	Signal
1	UBATT	red	UBATT
2	Ground	black	Ground

Order name	Short name	Order number
Power Supply Cable, Lemo 1B FGJ Banana (2fc-2mc), 2 m	CBP120-2	F 00K 102 584

9.2.3 CBP1205



Power supply cable with safety banana plugs

Side A	Side B
	

Pin	Signal	Plug	Signal
1	UBATT	Red	UBATT
2	Ground	Black	Ground

Order name	Short name	Order number
Power Supply Cable, Lemo 1B FGJ – Safety Banana (2fc-2mc), 2 m	CBP1205-2	F 00K 110 023

Note

Power supply cables with safety banana plug are suitable only for connection to voltage sources with safety socket.

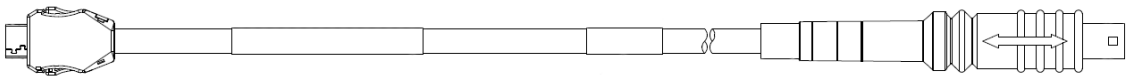
9.2.4 CBE550.1-3

Harting iX – RJ45 Host to PC

Side A		Side B	
Pin	**Signal**	**Pin**	**Signal**
1	BI_DA+	3	BI_DB+
2	BI_DA-	6	BI_DB-
4	BI_DC+	7	BI_DD+
5	BI_DC-	8	BI_DD-
6	BI_DB+	1	BI_DA+
7	BI_DB-	2	BI_DA-
9	BI_DD+	4	BI_DC+
10	BI_DD-	5	BI_DC-
Housing	Shield		
3, 8	NC		

Order name	Short name	Order number
Ethernet connection cable, Harting iX – RJ45 (10mc-8mc), 3 m	CBE550.1-3	F 00K 114 871

9.2.5 CBE570.1-3



Harting iX – Lemo GBit, cable for connecting to ETAS Gbit-coded plugs, e.g. ES8xx

Side A		Side B	
Pin	**Signal**	**Pin**	**Signal**
1	BI_DA+	5	BI_DB+
2	BI_DA-	4	BI_DB-
4	BI_DC+	7	BI_DD+

Side A		Side B	
Pin	**Signal**	**Pin**	**Signal**
5	BI_DC-	6	BI_DD-
6	BI_DB+	1	BI_DA+
7	BI_DB-	8	BI_DA-
9	BI_DD+	3	BI_DC+
10	BI_DD-	2	BI_DC-
Housing	Shield	Housing	Shield
3, 8	NC	9, 10	NC

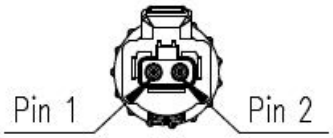
Order name	Short name	Order number
Ethernet connection cable, Harting iX – Lemo (10mc – 10mc), 3 m	CBE570.1-3	F 00K 114 873

9.2.6 CBEB510.1-3

For evaluating shielded vehicle networks

Equip the cable with a connector suitable for your application.

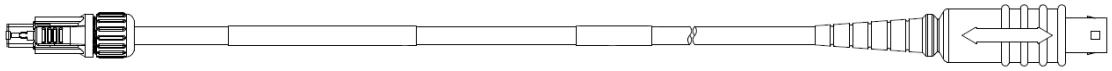
Side A



Side A	
Pin	**Signal**
1	BI_DA+
2	BI_DA-
Housing	Shield

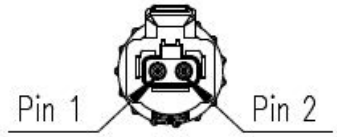
Order name	Short name	Order number
Shielded Automotive Ethernet connection cable, Harting T1 x Open Wire (2mc - 1x 2c), 3m	CBEB510.1-3	F 00K 114 874

9.2.7 CBEB522.1-3

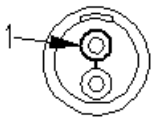


Cable for connecting to a BR_XETK equipped with a CBAM290 or CBAM295 cable

Side A



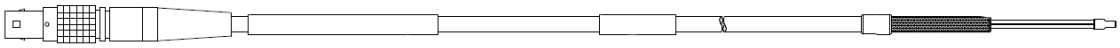
Side B



Side A		**Side B**	
Pin	**Signal**	**Pin**	**Signal**
1	BI_DA+	2	BR+
2	BI_DA-	1	BR-
Housing	Shield	Housing	Shield

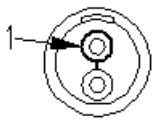
Order name	**Short name**	**Order number**
Shielded Automotive Ethernet connection cable, Harting T1 x Lemo FGA 1B (2mc - 2mc), 3m	CBEB522.1-3	F 00K 114 875

9.2.8 CBAV510.1-3



Cable for connecting the wake-up signal from the target device to the ES570.1 module

Side A



Side B

Side A		**Side B**
Pin	**Signal**	without plug
1	LED+	-
2	LED−	-
Housing	Shield	

Order name	Short name	Order Number
Wake Up synchronization cable, Lemo 0B FGG – 1 x Open Wire (2mc – 1 x 2c), 3m	CBAV510.1-3	F 00K 115 099

10 Contact Information

Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the ETAS website:

www.etas.com/hotlines

ETAS offers trainings for its products:

www.etas.com/academy

ETAS Headquarters

ETAS GmbH		
Borsigstraße 24	Phone:	+49 711 3423-0
70469 Stuttgart	Fax:	+49 711 3423-2106
Germany	Internet:	www.etas.com

11 Return form

You can find the return form and information about this process on the ETAS website:www.etas.com/en/support/hw_return_form.php.

12 Legal information

12.1 Use of Open Source Software

The product might use Open Source Software (OSS). This software is installed on the product at shipment and does not need to be installed or updated by the user. If OSS is used, see the accompanying "OSS Attributions Document" for more information.

12.2 Certification and conformity

12.2.1 Declarable Substances

European Union

Some products from ETAS GmbH (e.g. modules, boards, cables) use components with materials that are subject to declaration in accordance with the REACH regulation (EC) no.1907/2006. The REACH Declaration is available online at www.etas.com/reach and is continuously updated.

12.3 Standards and norms

The ES570.1 complies with the following standards and norms:

Standards	Title	Further Information
IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	
IEC 61326-1:2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements	Electromagnetic Environment: Industrial
CISPR 11:2015, CISPR 11:2015/AMD1:2016, CISPR 11:2015/AMD2:2019	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Class of the equipment: Class A Group of the equipment: 1

12.3.1 EMC Class A

Republic of Korea

이 기기는 업무용 환경에서 사용할 목적으로 적합성평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파간섭의 우려가 있습니다.
This equipment is in Class A suitable for professional use and is for use in electromagnetic environments outside of the home.

USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Responsible Party – U.S. Contact Information
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